Message

From: Strynar, Mark [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=5A9910D5B38E471497BD875FD329A20A-STRYNAR, MARK]
Sent: 1/4/2018 6:09:24 PM
To: Yongtao Li [YongtaoLi@eurofinsUS.com]
CC: Matthew Hartz [MatthewHartz@eurofinsUS.com]
Subject: RE: Non-target PFAS Analytes
Attachments: Strynar et al., 2015 ES&T.pdf; strynar et al., 2015 SI.pdf

If you run it on an Orbitrap look for these M/Z in my paper (Table 1 compounds 11 and 12) shown in Figure 3. We see the Nafion BP1 is about 1/10th the size of the BP2 compound based on integrated area on our TOFMS and QTOFMS. It elutes just before Nafion BP2. I have never done Nafion BP1 on my MS/MS. Perhaps it is too labile???

Mark

From: Yongtao Li [mailto:YongtaoLi@eurofinsUS.com]
Sent: Thursday, January 04, 2018 12:47 PM
To: Strynar, Mark <Strynar.Mark@epa.gov>
Cc: Matthew Hartz <MatthewHartz@eurofinsUS.com>
Subject: RE: Non-target PFAS Analytes

Hi Mark:

Ex. 4 CBI

Thanks,

Yongtao (Bruce) Li, PhD

Phone: +1 574 472 5562
Mobile: +1 574 707 5026
Email: YongtaoLi@EurofinsUS.com

From: Strynar, Mark [mailto:Strynar.Mark@epa.gov]
Sent: Wednesday, January 03, 2018 3:27 PM
To: Yongtao Li
Cc: Matthew Hartz
Subject: RE: Non-target PFAS Analytes

No we have measured for all of these on our TOFMS system. I only sent you MS/MS info. Actually I would recommend you use a TOFMS or QTOFMS instead to get accurate mass and find analytes you did not know where present. Unless your customer does not want that data.

Mark

From: Yongtao Li [mailto:YongtaoLi@eurofinsUS.com]
Sent: Wednesday, January 03, 2018 2:13 PM
To: Strynar, Mark <Strynar.Mark@epa.gov>
Cc: Matthew Hartz <MatthewHartz@eurofinsUS.com>
Subject: RE: Non-target PFAS Analytes

Thank you, Mark!

Your quick information is so helpful. It will be interesting to know how the Nafion BP1 and BP2 standards are related to your current approach and results. I assume that you has not monitored Nafion BP1, for the slides do not show BP1's MRM and chromatograms. We are also working on running a concentrated extract from multiple Cape Fear River water samples. I hope that all these non-target analytes can be verified.

Best,
Bruce

Yongtao (Bruce) Li, PhD

Phone: +1 574 472 5562
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Email: YongtaoLi@EurofinsUS.com

From: Strynar, Mark [mailto:Strynar.Mark@epa.gov]
Sent: Wednesday, January 03, 2018 1:15 PM
To: Yongtao Li
Cc: Matthew Hartz
Subject: RE: Non-target PFAS Analytes

Hi Bruce,

Find attached screenshots of our MRM methods for the analytes below. We used a Waters Acquity UPLC with a Quattro Premier XE MS/MS for this work. All of these were developed from infusion of water extracts contaminated from Chemours on the Cape Fear river and are not from reference standards. The two I now have synthesized from Chemours on your list is the Nafion BP1 and BP2. However I have yet to infuse them on our MS/MS yet. The other analytes as far as I am aware do not have commercial sources I have found yet. A lot of our work for semi-quantitative estimation is done on our TOFMS system that did not require authentic standards to make MRMs as on a triple quad.

Mark

From: Yongtao Li [mailto:YongtaoLi@eurofinsUS.com]
Sent: Tuesday, January 02, 2018 1:24 PM
To: Strynar, Mark <Strynar.Mark@epa.gov>
Cc: Matthew Hartz <MatthewHartz@eurofinsUS.com>
Subject: Non-target PFAS Analytes

Dear Mark:

Thank you very much for sending your PFAS SOPs to us, which has helped us a lot. Due to the interest of customers, we also like to include some non-target PFAS analytes in our procedures. Our tentative non-target list includes:

Perfluoro-2-methoxyacetic acid	PFMOAA	674-13-5
Perfluoro(3,5-dioxahexanoic) acid	PFO2HxA	39492-88-1
Perfluoro(3,5,7-trioxaoctanoic) acid	PFO3OA	39492-89-2
Perfluoro(3,5,7,9-tetraoxadecanoic) acid	PFO4DA	39492-90-5
Nafion Byproduct 1	Nafion BP1	29311-67-9
Nafion Byproduct 2	Nafion BP2	749836-20-2

Some of them were shown in your recent papers. If you have done some quantitation or semi-quantitation work about them, could you share with us about the reference standard sources and MRM mass transitions used in your lab?

Thanks again!

Bruce

Yongtao (Bruce) Li, PhD
Technical Director

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